



DOCKET: CU-3682

PATENT

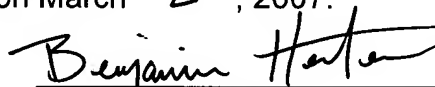
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application: Shunsuke KOBAYASHI et al. ] GRP ART UNIT: 1772  
Serial No: 10/823,105 ] Ex.: Hon, Sow Fun  
Filed: April 13, 2004 ]

For: LIQUID CRYSTAL-SOLUBLE PARTICLE, METHOD FOR MANUFACTURING  
THE SAME AND LIQUID CRYSTAL DEVICE ELEMENT

**Certification under 37 C.F.R. §1.8(a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with The United States Postal Service with sufficient postage as first class mail in an envelope addressed to The Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on March 2, 2007.

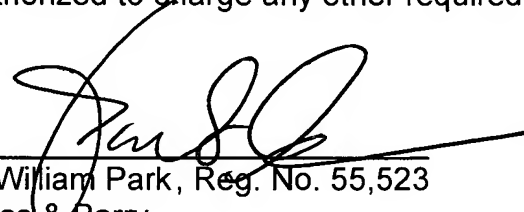
  
Benjamin Horton

Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT BEFORE MAILING  
OF A FINAL ACTION OR THE NOTICE OF ALLOWANCE**

The information disclosure statement submitted herewith is being filed before the mailing date of either a final action under §1.113, or a notice of allowance under §1.311, 37 CFR 1.97(c). The Commissioner is authorized to charge \$180.00 to cover the fee set forth in §1.17(p). The Commissioner is also authorized to charge any other required fees to our Deposit Account No. 12-0400.

Date: March 2, 2007

  
W. William Park, Reg. No. 55,523  
Ladas & Parry  
224 South Michigan Avenue  
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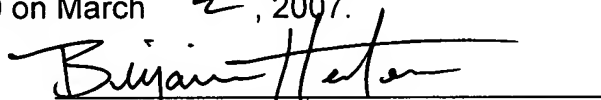
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The Commissioner for Patents  
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**INFORMATION DISCLOSURE STATEMENT (IDS)**

Applicant submits herewith patents, publications or other information of which the applicant is aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose under 37 CFR 1.56.

No paper copies of the U.S. patent references identified in this IDS, if any, are submitted herewith as they are no longer required by the USPTO rules. Only the copies of foreign patent and/or other relevant publication references are submitted herewith.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

The references submitted herein are listed on PTO-1449 form (modified) enclosed herewith. A copy of each reference listed is being furnished except any duplicate or cumulative patents or publications specified otherwise.

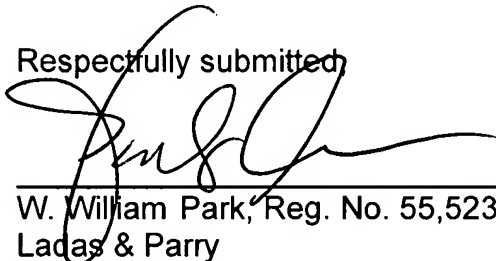
A translation of any foreign language reference, if any, is indicated in PTO-1449 form and being submitted herein if it is readily available. Otherwise it should be construed that such translation is not readily available.

The Statement is made on the basis of the information:

- ☒ supplied by an individual associated with the filing and prosecution of this application (37 CFR 1.56(c));
- ☒ cited in a corresponding PCT, EPO, and/or foreign application, if any.

Date: March 2, 2007

Respectfully submitted,



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## Form PTO-1449 (Modified)

FORM PTO-1449	ATTY. DOCKET NO. CU-3682	SERIAL NO. 10/823,105
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant Shinsuke KOBAYASHI, et al.	
(37 CFR 1.98(b))	FILING DATE April 13, 2004	GROUP 1772

## U.S. PATENT OR PUBLISHED U.S. PATENT APPLICATION DOCUMENTS

EXAMINER INITIAL	PATENT DOCUMENT	ISSUE/PUB DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	DOCUMENT NUMBER	PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB- CLASS	TRANSLATION YES   NO	

## OTHER DOCUMENTS (Including Author, Title, Date, Place of publication)

		Kobayashi, Shunsuke, "Next Generation Liquid Crystal Display", Sept. 2002, KYORITSU SHUPPAN CO., LTD., chapters 4 and 8.
		Schadt, M., "Low-Frequency Dielectric Relaxations in Nematics and Dual-Frequency Addressing of Field Effects", April 6, 1982, <i>Mol. Cryst. Liq. Cryst.</i> , Vol. 89, pp 77-92.
		Yoshikawa, Hiroaki, et al., "Frequency Modulation Response of a Tunable Birefringent Mode Nematic Liquid Crystal Electrooptic Device Fabricated by Doping Nanoparticles of Pd Covered with Liquid-Crystal Molecules", November 2002, <i>Jpn. J. Appl. Phys.</i> , Vol. 41, pp. L1315-L1317.
		"Shiraishi, Yukihide, et al., "Frequency Modulation Response of a Liquid-Crystal Electro-Optic Device Doped with Nanoparticles", October 2002, <i>Applied Physics Letters</i> , Vol. 81, No. 15, pp. 2845-2847.
Examiner		DATE CONSIDERED
Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

(Form PTO-1449)

3-28-07